

Work Order ID 138035

Wednesday, October 21, 2015 7:49:54 AM

138035

Page 1

Item ID: D4088-041 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: Shoulder Harness
 Start Date: 10/21/2015 Start Qty: 1.00 ***1*** Cust Item ID:
 Required Date: 10/21/2015 Req'd Qty: 1.00 ***1*** Customer:

Reference:

Approvals: Process Plan: CL Date: OCT 21 2015 Tooling: _____ Date: _____
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____
 Run Start ***NR1***
 Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr
D4088	A

100 0.00
100
 Purchasing Memo 0.00
 Purchasing Issue P/O: 26942
 Manufacture D4088-041 as per Dwg D4088
 Supplier: AMSAFE INC.
 Certificate of conformity is required

CL OCT 21 2015 1

110 Receive & Inspect for Damage & Mat'l Certs 0.00
110
 Packaging Memo 0.00
 Packaging

IX SP15-10-21

120 QC6- Inspect dimensions to drawing 0.00
120
 QC Memo 0.00
 Quality Control

D OCT 21 2015
 DAS 38 0.89

Work Order ID 138035***138035***

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Wednesday, October 21, 2015 7:49:54 AM

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Start Date: 10/21/2015 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 10/21/2015 Req'd Qty: 1.00 ***1*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130 *130* Packaging Packaging	Identify as per dwg & Stock Location: <u>ST 466</u> Memo	0.00 0.00				<u>1</u>		<u>27</u> <u>9-89</u> <u>OCT 26 2015</u>	
140 *140* QC Quality Control	QC21- Final Inspection - Work Order Release Memo	0.00 0.00					<u>MLJ</u>	<u>OCT 26 2015</u>	

SW
20151026

Picklist Print

Wednesday, October 21, 2015 7:49:52 AM

Page 1

Work Order ID: 138035

138035

Parent Item: D4088-041

D4088-041

Parent Item Name: Shoulder Harness

Start Date: 10/21/2015

Required Date: 10/21/2015

Start Qty: 1.00

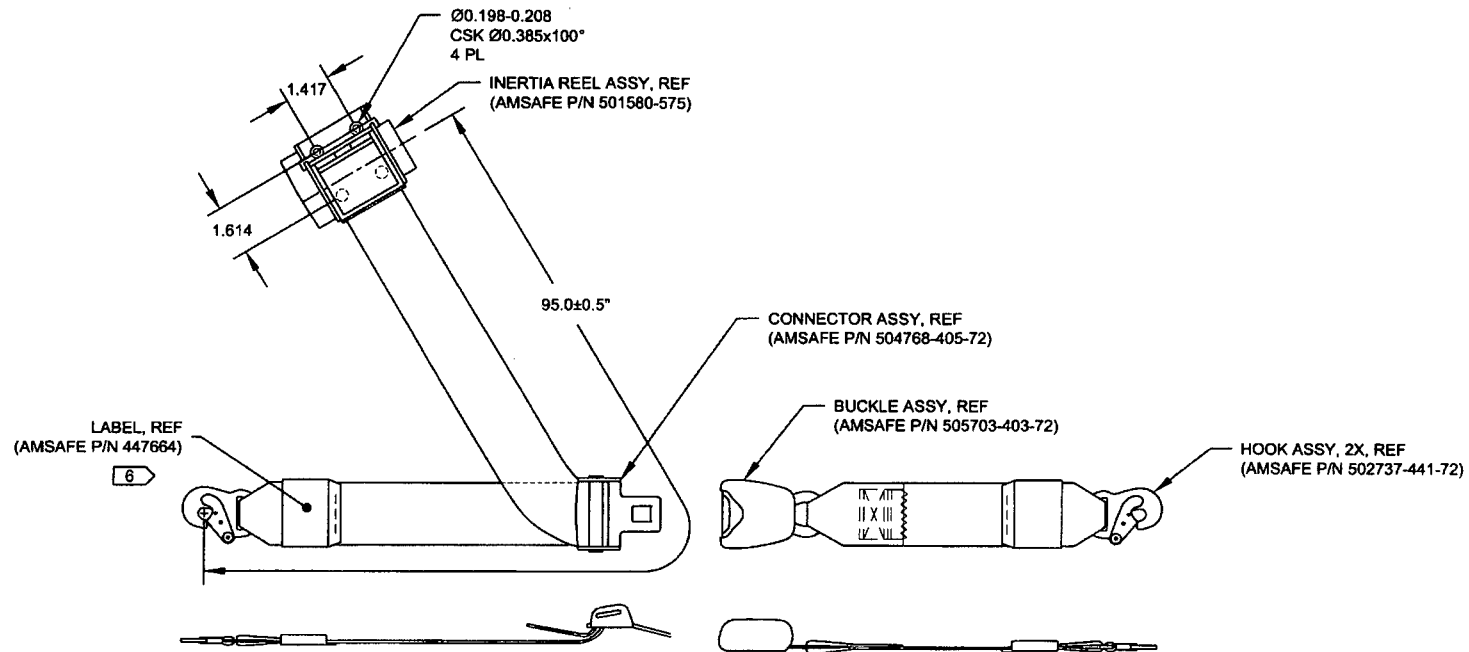
Required Qty: 1.00

Comments: IPP REV:A NEW ISSUE DD 10.04.29 VERIFIED:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
3221-1-011-2396		Purchased	No			110	Each	0.0000	1	1			
3221-1-011-2396									**				
Shoulder Harness													

1/KSOF-LO-21

SPECIFICATION CONTROL DRAWING



D4088-041 SHOUDLER HARNESS

C215110121
W10' 138035

NOTES:

- 1) PURCHASE: AMSAFE INC. P/N 3221-1-011-2396
3-POINT SHOULDER HARNESS WITH PUSH-BUTTON BUCKLE
MEETS REQUIREMENTS OF TSO-C114
CHROME HARDWARE PLATING AND BLACK WEBBING
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: LABEL TO CONTAIN THE FOLLOWING AT MINIMUM:
PART NO. 3221-1-011-2396
CUST P/N: D4088-041
RATED: 3000 LBS DATE OF MFG
CONFORMS TO TSO-C114
- 7) WEIGHT: 1.5 lbs

RELEASED
2010-06-27

REV.	NEW ISSUE	DESCRIPTION	CP	10.03.16
DESIGN			BY	DATE
DRAWN				
CHECKED				
MFG. APPR.				
APPROVED				
DE APPR.				
DATE	10.03.16			

DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWING NO. D4088	REV. A
TITLE SHOULDER HARNESS	SCALE NTS
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Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

OUTSTANDING PO REPRINT

Purchase Order ID **PO26942**

Purchase Order Date 1/6/2015

PO Print Date 10/21/2015

Page Number 1 of 1

Order From : VU-AMS001

AMSAFE INC.
1043 NORTH 47TH AVENUE
PHOENIX, AZ 85043
US

Ship To : DART AEROSPACE LTD

1270
ABERD
EEN
HAWKE
SBURY,
ON
K6A
1K7
CANAD
A

Contact Name		Buyer	Chantal Lavoie
Vendor Phone	602 850 2850	Customer POID	
Vendor Fax	602-278-3479	Customer Tax #	10127-2607
Ship To Contact		Terms	Net 30
Ship To Phone		Currency	USD
		FOB	FCA - (Free Carrier)
Ship Method	FedEx Overnight collect		
Ship Acct			

Line Nbr	Item ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty	Extended Price
6	3221-1-011-2396	Shoulder Harness	10/21/2015 Yes 10/21/2015	1.00 Each	\$0.00

AS PER DWG DE4088 REV. A
B138035
REPLACEMENT PART NO CHARGE

Line Total: \$0.00

Outstanding PO Total: \$0.00

cd

Terms & Condition of
Purchasing(Suppliers) and
Procurement Quality Clauses are an
integral part of our AS9100

Change Nbr: 3

Change Date: 10/21/2015

1043 North 47th Avenue
PHOENIX AZ 85043
PH (602)850 2850 FAX (602)278 3479

Please remit to
AmSafe Inc
Lockbox 911928
P O Box 31001 1928
Pasadena CA 91110 1928

BILL TO	DART AEROSPACE	SHIP TO	DART AEROSPACE LTD	SOLD TO	DART AEROSPACE
	1270 ABERDEEN STREET		1270 ABERDEEN ST		1270 ABERDEEN STREET
	HAWKESBURY ON K6A 1K7		HAWKESBURY ON K6A 1K7		HAWKESBURY ON K6A 1K7
	Canada		Canada		Canada

1517 9324 0

Freight

COMMENTS

COLLECT

A004	FAA PMA/TSO ** ALL DART ORDERS SHOULD BE RETROFIT**
A005	RIGHT OF ENTRY
A007	FIRST ARTICLE INSPECTION BY SELLER & MAINTAINED BY SELLER
A016	PERSONAL QUALIFICATION
A026	CERTIFICATION OF MATERIAL CONFORMANCE
A040	NOTIFICATION OF QUALITY ESCAPE
A041	QUALITY MANAGEMENT SYSTEM
A042	DART NOTIFICATION BY SUPPLIER
LABEL	REQUIRES PN CUSTOMER PN, RATED DATE OF MGF
A043	RETENTION OF QUALITY DOCUMENT

8/5-10-21

Non Taxable:

Line Total

Total Taxable

The undersigned, the owner/consignee of goods listed in this invoice/document declares that according to the rule being valid in the European Union, the origin of these goods is the United States of America.

Signature

Phoenix, Arizona, USA

Sales Tax

Total

AmSafe

1043 NORTH 47th AVENUE
PHOENIX, AZ 85043
PH (602)850-2850 FAX (602)850-2812

SHIPPER/CERTIFICATION



CUSTOMER NO.	SALES ORDER NO.	BOL NO.	DATE PRINTED	PAGE NO.
10006113	S313621	000387123	10/15/15	1

DART AEROSPACE
1270 ABERDEEN STREET
HAWKESBURY
HAWKESBURY, ON K6A 1K7
Canada

DART AEROSPACE LTD.
1270 ABERDEEN ST
HAWKESBURY,, ON K6A 1K7
Canada

Ship to ID: 10006125

CUSTOMER ORDER NO.	TERMS	FREIGHT	SHIP VIA	F.O.B.
PO26942	NET30	COLLECT	FedEx Intl Economy	ORIGIN

Sales Order Remarks: 1517-9324-0

SHIPMENT REFERENCE 000387123

Remarks:

A004 - FAA-PMA/TSO ** ALL DART ORDERS SHOULD BE RETROFIT**
A005 - RIGHT OF ENTRY
A007 - FIRST ARTICLE INSPECTION BY SELLER & MAINTAINED BY SELLER
A016 - PERSONAL QUALIFICATION
A026 - CERTIFICATION OF MATERIAL CONFORMANCE
A040 - NOTIFICATION OF QUALITY ESCAPE
A041 - QUALITY MANAGEMENT SYSTEM
A042 - DART NOTIFICATION BY SUPPLIER
LABEL REQUIRES PN, CUSTOMER PN, RATED, DATE OF MGF

LINE	ITEM NUMBER DESCRIPTION	QTY ORDERED	QTY SHIPPED	QTY BACK ORDERED
1	Cust. Item No.: D4088-041 3221-1-011-2396 REST SYS ASSY W/IR DRAWING: 3221 REV: C CERT: TSO-C114 Lot/Serial Numbers Shipped Quantity S313621-1	1.0	1	0

SP15-10-20

I certify that the article(s) listed above conform to all applicable design data, and (as applicable):

FAA PMA, FMVSS 209, FMVSS 302, 14 CFR 25.853

FAA TSO C22f, C22g, C114 or TSO Plus

The conditions and tests required for TSO approval of the article(s) are minimum performance standards. It is the responsibility of those installing the article(s) either on or within a specific type or class of aircraft to determine that the aircraft installation conditions are within the standards applicable to the TSO article including (when applicable) the integrated non-TSO function. The non-TSO function is described as the seat belt airbag system including the inflator cable assembly and electrical components that have not been evaluated for functionality or installation requirements. TSO articles including the integrated non-TSO function must have separate approval for installation in an aircraft. The article(s) may be installed only if performed under 14 CFR part 43 or the applicable airworthiness requirements. Product shipped meets all material, processing and test requirements. Certifications/Test reports as applicable are retained on file at AmSafe Aviation.

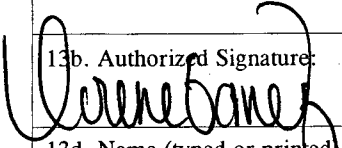
AmSafe Authorized Signature: X

Printed Name:

Jesse Ochoa
Jesse Ochoa

OCT 15 2015
Dated:

COUNTRY OF ORIGIN USA

1. Approving Civil Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: S313621 - 1 - <u>16</u>	
4. Organization Name and Address: AmSafe, Inc. 1043 North 47th Avenue Phoenix, Arizona 85043		Cert. No. PT1967NM			5. Work order/Contract/Invoice Number: S313621 - 1 ☒ PAGES ATTACHED	
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:	
1	REST SYS ASSY W/IR	3221-1-011-2396	1	N/A	NEW	
12. Remarks: Drawing: 3221 Rev: C TSO: TSO-C114 DATE CODE: <u>A1015</u>  CUSTOMER P/N: <u>D4088-041</u>						
EXPORT AIRWORTHINESS APPROVAL: THIS ARTICLE MEETS THE SPECIAL REQUIREMENTS OF CANADA						
13a. Certifies the items identified above were manufactured in conformity to: ☒ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 12.			14a. ☐ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 12 Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.			
13b. Authorized Signature: 		13c. Approval/Authorization No.: ODA602112NM		14b. Authorized Signature		14c. Authorized/Certificate No.
13d. Name (typed or printed) Irene Gomez		13e. Date (dd/mm/yyyy): 14/OCT/2015		14d. Names (typed or printed)		14e. Date (dd/mm/yyyy):
User/Installer Responsibilities						
It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1. Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.						

Material Burn Test Data and Report Record

For Horizontal Burn Test procedure Meets ASI Specification E503661 Rev F, FAR 25 853a
And Bell Helicopter Textron Test Specification 299-947-160 Rev D

1 0 Material

Part No 502396 Lot No 473017 Description BLACK 5 BAR
Rev Level R

2 0 Material Specimen Dimensions (inches)

	<u>Sample 1</u>	<u>Sample 2</u>	<u>Sample 3</u>
Length	13 00	13 00	13 00
Width	1 91	1 91	1 91
Thickness	0 05	0 05	0 05

3 0 Material Burn Rate Calculation

- 3 1 If the material does not ignite, the result is an immediate pass with an average burn rate of 0 00 in/min
- 3 2 In the event that the webbing does ignite but self-extinguishes before it reaches the 1 5 inch gauge line, the result is passing
- 3 3 If the material does ignite and burn past the 1 5 inch gauge line but self-extinguishes prior to reaching the 11 5 inch gauge line within 4 minutes the burn rate may be calculated by the following equation

$$\text{Burn Rate} = \frac{\text{Sample Length (in)} - \text{Material Remaining After Burn (in)} - 1 5(\text{in})}{\text{Total Burn Duration (min)} - \text{Time to reach 1 5in Gauge Line (min)}} = \frac{\text{Sample Length (in)} - L_r(\text{in}) - 1 5(\text{in})}{t_r - t_{1 5}}$$

Where

t_r = Time (in minutes) for flame to reach the 11 5 inch gauge line or to extinguish if past the 1 5 inch gauge line

L_r = Length (in inches) of material remaining after burning

$t_{1 5}$ = Time (in minutes) for flame front to cross the 1 5 inch gauge line

If the material does not extinguish before the 11 5 in gauge line within 4 minutes the burn rate may be calculated as follows

3 4

$$\text{Burn Rate} = \frac{\text{Sample Length (in)} - 1 5(\text{in})}{4(\text{min}) - \text{Time to reach 1 5in Gauge Line (min)}} = \frac{\text{Sample Length (in)} - 1 5(\text{in})}{t_r - t_{1 5}}$$

4 0 Results

Sample No	Flame Temp (>1550°F)	$t_{1 5}$ (Min)	t_r (Min)	L_r (in)	Burn Rate (in/min)	Note
1	1862	0 00	0 00	N/A	0 00	SELF-EXTINGUISHED
2	1864	0 00	0 00	N/A	0 00	SELF-EXTINGUISHED
3	1866	0 00	0 00	N/A	0 00	SELF-EXTINGUISHED

Maximum allowable average burn rate 2 5 in/min

Average
Results **0 00
PASS**

Technician Marisol C



Date August 14 2015

When the part is smaller than 12 inches in length and the burn rate is less than 2 5 inches/minute but greater than 0 5 inches/minute For small or non webbing parts refer to Form A 135 Flammability Report for Non Webbing

Form A 142 Rev Oct 12